

7 May 1970

MEMORANDUM FOR: [REDACTED]

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SUBJECT : Notes on MC&G Working Group
Meeting of 29 April 1970

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1. [REDACTED] explained that the Working Group would be given a one hour briefing by representatives of the Navy, Air Force, and NRO regarding the effectiveness of the Doppler beacon on Mission 1109 but that this briefing would be condensed down to 30 minutes for presentation to COMIREX on 30 April and would be given by [REDACTED]. I shall try to avoid too many items that were given during the COMIREX briefing since this information will be made available to you through regular channels.

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2. [REDACTED] of the Naval Weapons Laboratory, which manages the Doppler receiving stations involved, said that, of the 253 revolutions used from Mission 1109, 172 showed errors in the ephemeris not exceeding 50 meters. Of the chosen priority revolutions, numbering 44, 75 percent showed errors of less than 50 meters.

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3. [REDACTED] of TOPOCOM described some tests at the [REDACTED] in which 57 points were used. The results were extremely encouraging. Of the Category I positioning targets, 1,124 were specified for coverage by Mission 1109. Of these, 893 were covered. Category II positioning targets for which

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requirements were given for Mission 1109 numbered 4,753. Of these, 2,207 were covered. This was considered almost phenomenal and it would be surprising if such success were obtained on future missions. The positioning target requirements for Mission 1110 are already established and involve 243 of the Category I type and 2,659 of the Category II type. The above positioning targets refer to only those within denied areas. There are probably as many additional targets outside of the denied areas which are needed to assist in improving geodetic positioning throughout the world. The projected horizontal accuracy hoped for by ACIC, with 90 percent assurance, was approximately 250 feet. At the [REDACTED] the test analyses showed ground accuracy of 130 feet and at the test site near [REDACTED] it proved to be 220 feet. With regard to the vertical accuracy, 90 percent assurance, the hoped-for accuracy was 200 feet; the average analyzed accuracy at [REDACTED] was 270 feet; and that obtained at [REDACTED] was 190 feet. Probably these accuracies at the test sites during passes of Mission 1109 are greater than can be expected for other positioning targets but nevertheless everyone was enthusiastic with the results.

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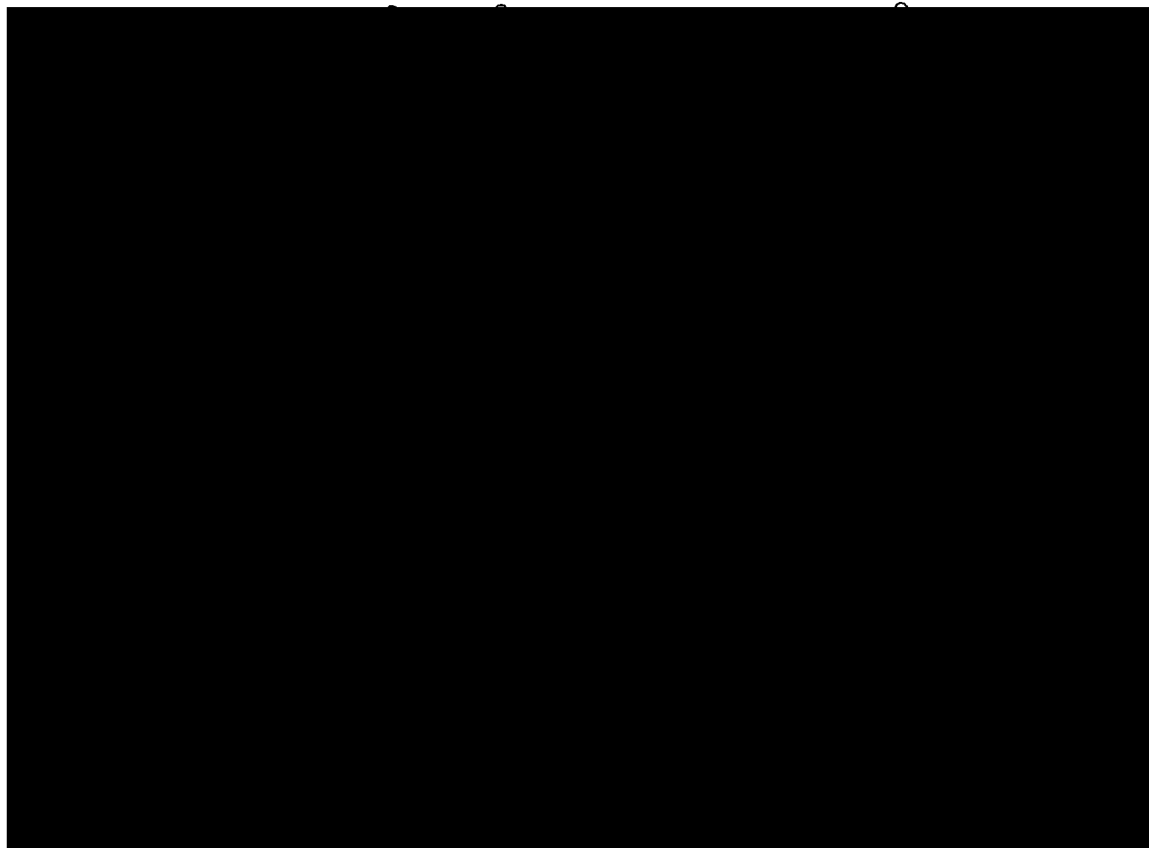
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5. Although some other items of minor importance were discussed, I believe that the above covers the main points.

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